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1 [Software support: Sympathy for the sensor network debugger](#)



Nithya Ramanathan, Kevin Chang, Rahul Kapur, Lewis Girod, Eddie Kohler, Deborah Estrin
November 2005 **Proceedings of the 3rd international conference on Embedded networked sensor systems SenSys '05**

Publisher: ACM Press

 Full text available: pdf(252.16 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Being embedded in the physical world, sensor networks present a wide range of bugs and misbehavior qualitatively different from those in most distributed systems. Unfortunately, due to resource constraints, programmers must investigate these bugs with only limited visibility into the application. This paper presents the design and evaluation of Sympathy, a tool for detecting and debugging failures in sensor networks. Sympathy has selected metrics that enable efficient failure detection, and incl ...

Keywords: debugging, failure detection, failure localization, root causes, sensor networks

2 [A distributed routing algorithm for mobile wireless networks](#)



M. Scott Corson, Anthony Ephremides
February 1995 **Wireless Networks**, Volume 1 Issue 1

Publisher: Kluwer Academic Publishers

 Full text available: pdf(1.92 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a loop-free, distributed routing protocol for mobile packet radio networks. The protocol is intended for use in networks where the rate of topological change is not so fast as to make "flooding" the only possible routing method, but not so slow as to make one of the existing protocols for a nearly-static topology applicable. The routing algorithm adapts asynchronously in a distributed fashion to arbitrary changes in topology in the absence of global topological knowle ...

3 [Adding High Availability and Autonomic Behavior to Web Services](#)



Ken Birman, Robbert van Renesse, Werner Vogels
May 2004 **Proceedings of the 26th International Conference on Software Engineering ICSE '04**

Publisher: IEEE Computer Society

 Full text available: pdf(222.11 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Rapid acceptance of the Web Services architecture promises to make it the most widely supported and popular object-oriented architecture to date. One consequence is that a wave of mission-critical Web Services applications will certainly be deployed in coming years. Yet the reliability options available within Web Services are limited in important ways. To use a term proposed by IBM, Web Services systems need to become far more "autonomic," configuring themselves, diagnosing faults, and managing themselves ...

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1 [Architecture design for regulating and scheduling user's traffic in ATM networks](#)



H. Jonathan Chao

 October 1992 **ACM SIGCOMM Computer Communication Review , Conference proceedings on Communications architectures & protocols SIGCOMM '92**, Volume 22 Issue 4

Publisher: ACM Press

 Full text available: [pdf\(1.11 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The asynchronous transfer mode (ATM) technique provides a standardized and flexible scheme to transport and switch traffic effectively for different services. To provide satisfactory quality of service (QOS) to all users on the network, it is necessary to control the user's traffic so that network resources can be efficiently and fairly utilized by all the users while still meeting the individual QOS requirement. In this paper, we propose to control the user's traffic at two places in the n ...

2 [Columns: Risks to the public in computers and related systems](#)



Peter G. Neumann

 March 2004 **ACM SIGSOFT Software Engineering Notes**, Volume 29 Issue 2

Publisher: ACM Press

 Full text available: [pdf\(165.39 KB\)](#)

 Additional Information: [full citation](#)

3 [Social navigation: Making web sites be places for social interaction](#)



Andreas Girgensohn, Alison Lee

 November 2002 **Proceedings of the 2002 ACM conference on Computer supported cooperative work**

Publisher: ACM Press

 Full text available: [pdf\(617.04 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Technology can play an important role in enabling people to interact with each other. The Web is one such technology with the affordances for sharing information and for connecting people to people. In this paper, we describe the design of two social interaction Web sites for two different social groups. We review several related efforts to provide principles for creating social interaction environments and describe the specific principles that guided our design. To examine the effectiveness of ...

Keywords: awareness, common ground, communication, cooperation, participation, practice and experience, social interaction, usability, usage data, web-based collaboration

4 Two-handed gesture in multi-modal natural dialog



Richard A. Bolt, Edward Herranz

December 1992 **Proceedings of the 5th annual ACM symposium on User interface software and technology**

Publisher: ACM Press

Full text available: pdf(814.27 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Tracking both hands in free-space with accompanying speech input can augment the user's ability to communicate with computers. This paper discusses the kinds of situations which call for two-handed input and not just the single hand, and reports a prototype in which two-handed gestures serve to input concepts, both static and dynamic, manipulate displayed items, and specify actions to be taken. Future directions include enlargement of the vocabulary of two-handed "coverbal" gest ...

Keywords: gestural input, multi-modal interaction, natural dialog

5 Metrics and work study practices: Common metrics for human-robot interaction



Aaron Steinfeld, Terrence Fong, David Kaber, Michael Lewis, Jean Scholtz, Alan Schultz, Michael Goodrich

March 2006 **Proceeding of the 1st ACM SIGCHI/SIGART conference on Human-robot interaction HRI '06**

Publisher: ACM Press

Full text available: pdf(131.36 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes an effort to identify common metrics for task-oriented human-robot interaction (HRI). We begin by discussing the need for a toolkit of HRI metrics. We then describe the framework of our work and identify important biasing factors that must be taken into consideration. Finally, we present suggested common metrics for standardization and a case study. Preparation of a larger, more detailed toolkit is in progress.

Keywords: human-robot interaction, metrics, unmanned ground vehicles

6 Visualization components for persistent conversations



Marc A. Smith, Andrew T. Fiore

March 2001 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Publisher: ACM Press

Full text available: pdf(550.62 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

An appropriately designed interface to persistent, threaded conversations could reinforce socially beneficial behavior by prominently featuring how frequently and to what degree each user exhibits such behaviors. Based on the data generated by the Netscan data-mining project [9], we have developed a set of tools for illustrating the structure of discussion threads like those found in Usenet newsgroups and the patterns of participation within the discussions. We describe the benefits and cha ...

Keywords: Usenet, asynchronous threaded discussions, newsgroup, persistent conversation, social cyberspaces, visualization


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 Terms used roll over traffic policing parameter

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1 Architecture design for regulating and scheduling user's traffic in ATM networks



H. Jonathan Chao

 October 1992 **ACM SIGCOMM Computer Communication Review , Conference proceedings on Communications architectures & protocols SIGCOMM '92**, Volume 22 Issue 4

Publisher: ACM Press

Full text available: pdf(1.11 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The asynchronous transfer mode (ATM) technique provides a standardized and flexible scheme to transport and switch traffic effectively for different services. To provide satisfactory quality of service (QOS) to all users on the network, it is necessary to control the user's traffic so that network resources can be efficiently and fairly utilized by all the users while still meeting the individual QOS requirement. In this paper, we propose to control the user's traffic at two places in the n ...

2 Illustrative risks to the public in the use of computer systems and related technology



Peter G. Neumann

 January 1996 **ACM SIGSOFT Software Engineering Notes**, Volume 21 Issue 1

Publisher: ACM Press

Full text available: pdf(2.54 MB)

 Additional Information: [full citation](#)

3 Link and channel measurement: A simple mechanism for capturing and replaying wireless channels



Glenn Judd, Peter Steenkiste

 August 2005 **Proceeding of the 2005 ACM SIGCOMM workshop on Experimental approaches to wireless network design and analysis E-WIND '05**

Publisher: ACM Press

Full text available: pdf(6.06 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility of using on-card signal strength measurements to capture wireless channel traces. A key advantage of this approach is the simplicity and ubiquity with which these measurements can be obtained since virtually all wireless devices provide the req ...

Keywords: channel capture, emulation, wireless

4 Risks to the public in computers and related systems



 July 1999 **ACM SIGSOFT Software Engineering Notes**, Volume 24 Issue 4

Publisher: ACM Press

Full text available:  pdf(460.21 KB)

Additional Information: [full citation](#), [index terms](#)

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1 [Wide area traffic: the failure of Poisson modeling](#)

Vern Paxson, Sally Floyd

 June 1995 **IEEE/ACM Transactions on Networking (TON)**, Volume 3 Issue 3

Publisher: IEEE Press

Full text available: pdf(2.18 MB)

 Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

2 [The performance of TCP/IP for networks with high bandwidth-delay products and random loss](#)

T. V. Lakshman, Upamanyu Madhow

 June 1997 **IEEE/ACM Transactions on Networking (TON)**, Volume 5 Issue 3

Publisher: IEEE Press

Full text available: pdf(390.77 KB)

 Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: TCP/Ip, congestion control, error recovery, flow control, internet, transport protocols

3 [RCBR: a simple and efficient service for multiple time-scale traffic](#)



M. Grossglauser, S. Keshav, D. Tse

 October 1995 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '95**, Volume 25 Issue 4

Publisher: ACM Press

Full text available: pdf(1.50 MB)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Compressed video traffic is expected to be a significant component of the traffic mix in integrated services networks. This traffic is hard to manage, since it has strict delay and loss requirements, but at the same time, exhibits burstiness at multiple time-scales. In this paper, we observe that slow time-scale variations can cause sustained peaks in the source rate, substantially degrading performance. We use large deviation theory to study this problem and to motivate the design of Renegotiat ...

4 An enforced inter-admission delay performance-driven connection admission control algorithm



Stanislav Belenki

April 2002 **ACM SIGCOMM Computer Communication Review**, Volume 32 Issue 2

Publisher: ACM Press

Full text available:  pdf(327.06 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Connection Admission Control (CAC) is an important function in a computer network that supports Quality of Service (QoS). The function of CAC is to decide whether a new connection can be admitted on the network or a part of the network in such a way that the QoS of the new connection and the already established connections will remain within the requested limits. CAC must also ensure that network resources are used efficiently avoiding unnecessary rejections of candidate connections. Some CAC al ...

5 MPICH-GQ: quality-of-service for message passing programs



Alain J. Roy, Ian Foster, William Gropp, Brian Toonen, Nicholas Karonis, Volker Sander

November 2000 **Proceedings of the 2000 ACM/IEEE conference on Supercomputing (CDROM)**

Publisher: IEEE Computer Society

Full text available:  pdf(140.75 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



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Parallel programmers typically assume that all resources required for a program's execution are dedicated to that purpose. However, in local and wide area networks, contention for shared networks, CPUs, and I/O systems can result in significant variations in availability, with consequent adverse effects on overall performance. We describe a new message-passing architecture, MPICH-GQ, that uses quality of service (QoS) mechanisms to manage contention and hence improve performance of message ...

Keywords: MPI, Quality of Service, Differentiated Services, TCP

6 Dynamic task-based anycasting in mobile ad hoc networks



Prithwish Basu, Wang Ke, Thomas D. C. Little

October 2003 **Mobile Networks and Applications**, Volume 8 Issue 5

Publisher: Kluwer Academic Publishers

Full text available:  pdf(518.68 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Mobile ad hoc networks (MANETs) have received significant attention in the recent past owing to the proliferation in the numbers of tetherless portable devices, and rapid growth in popularity of wireless networking. Most of the MANET research community has remained focused on developing lower layer mechanisms such as channel access and routing for making MANETs operational. However, little focus has been applied on higher layer issues, such as application modeling in dynamic MANET environments. ...

Keywords: anycasting, device/service discovery, distributed application execution, mobile ad hoc networks, task graphs

7 Pricing differentiated services in the GPRS environment



Sergios Soursos, Costas Courcoubetis, George C. Polyzos

July 2003 **Wireless Networks**, Volume 9 Issue 4

Publisher: Kluwer Academic Publishers

Full text available:  pdf(916.31 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The General Packet Radio Service extends the existing GSM mobile communications technology by providing packet switching and higher data rates in order to efficiently access IP-based services in the Internet. We adapt the Differentiated Services Quality-of-Service support framework and apply it over the GPRS air interface in order to provide various levels of service differentiation. We also focus on applying a charging technique so as to publish a unit price for each service class. These prices ...

Keywords: GPRS, QoS, congestion pricing, differentiated services, two-bit differentiation

8 Network Protocols



Andrew S. Tanenbaum

December 1981 **ACM Computing Surveys (CSUR)**, Volume 13 Issue 4

Publisher: ACM Press

Full text available: pdf(3.37 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

9 The Click modular router



Robert Morris, Eddie Kohler, John Jannotti, M. Frans Kaashoek

December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles SOSP '99**, Volume 33 Issue 5

Publisher: ACM Press

Full text available: pdf(1.46 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Click is a new software architecture for building flexible and configurable routers. A Click router is assembled from packet processing modules called *elements*. Individual elements implement simple router functions like packet classification, queueing, scheduling, and interfacing with network devices. Complete configurations are built by connecting elements into a graph; packets flow along the graph's edges. Several features make individual elements more powerful and complex configuration ...

10 Pricing differentiated services in the GPRS environment



Sergios Soursos, Costas Courcoubetis, George Polyzos

July 2001 **Proceedings of the first workshop on Wireless mobile internet**

Publisher: ACM Press

Full text available: pdf(645.04 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The General Packet Radio Service extends the existing GSM mobile communications technology by providing packet switching and higher data rates in order to efficiently access IP-based services in the Internet. Since no realization path for Quality-of-Service support has been proposed yet, we adapt the Differentiated Services framework and apply it over the GPRS air interface in order to provide various levels of service differentiation. We also focus on applying a charging technique so as ...

Keywords: GPRS, congestion pricing, differentiated services, tatonnement, two-bit differentiation

11 Design, implementation, and performance measurement of a native-mode ATM transport layer (extended version)



R. Ahuja, S. Keshav, H. Saran

August 1996 **IEEE/ACM Transactions on Networking (TON)**, Volume 4 Issue 4


Publisher: IEEE Press

Full text available:  pdf(1.66 MB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: AAL 5, asynchronous transfer mode, native-mode ATM, personal computer, transport layer

12 Parallel architectures for processing high speed network signaling protocols

Dipak Ghosal, T. V. Lakshman, Yennun Huang

December 1995 **IEEE/ACM Transactions on Networking (TON)**, Volume 3 Issue 6**Publisher:** IEEE PressFull text available:  pdf(1.58 MB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

13 A language-based approach to protocol implementation


Mark B. Abbott, Larry L. Peterson

February 1993 **IEEE/ACM Transactions on Networking (TON)**, Volume 1 Issue 1**Publisher:** IEEE PressFull text available:  pdf(1.88 MB)Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#),
[review](#)

14 Efficient fair queueing using deficit round robin



M. Shreedhar, George Varghese

October 1995 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '95**, Volume 25 Issue 4**Publisher:** ACM PressFull text available:  pdf(1.17 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Fair queueing is a technique that allows each flow passing through a network device to have a fair share of network resources. Previous schemes for fair queueing that achieved nearly perfect fairness were expensive to implement: specifically, the work required to process a packet in these schemes was $O(\log(n))$, where n is the number of active flows. This is expensive at high speeds. On the other hand, cheaper approximations of fair queueing that have been reported in the ...

15 A cell loss equalization protocol for video multiplexers



I. Nikolaidis, I. Akyildiz

October 1994 **Proceedings of the second ACM international conference on Multimedia****Publisher:** ACM PressFull text available:  pdf(947.92 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A serious fairness problem occurs whenever homogeneous, variable bit-rate, video traffic streams are multiplexed at a finite buffer statistical multiplexer. Namely, the cell loss ratio performance varies widely across individual traffic streams. The cause of the problem is the particular random relation of the periodic frame transmission epochs of the video sources that feed the multiplexer. In this paper a protocol is presented which controls the frame transmission epochs, in order to achi ...

16 Evaluating alternative plans for guiding tourism on Nantucket Island

Douglas P. Schleusner, Eugene E. Kaczka

December 1977 **Proceedings of the 9th conference on Winter simulation - Volume 1**

Publisher: Winter Simulation Conference

Full text available:  pdf(507.16 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper discusses the application of a GPSS (General Purpose Simulation System) model to a unique planning situation on Nantucket Island, Massachusetts. Various factors influencing levels of tourism are evaluated in addition to resultant economic and environmental impacts. Specifically, passive regulation of visitor traffic via ferry schedule modification is examined in relation to daily expenditures by visitor type versus the associated costs of increased police and medical services, wa ...

17 [GPS-based geographic addressing, routing, and resource discovery](#)



Tomasz Imieliński, Julio C. Navas

April 1999 **Communications of the ACM**, Volume 42 Issue 4

Publisher: ACM Press

Full text available:  pdf(329.24 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#),
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